Surface Science 220 (1989) 472–475
North-Holland, Amsterdam

AUTHOR INDEX

Allen, V.M., W.E. Jones and P.D. Pacey, The interaction of oxygen and carbon monoxide with iron oxide, nickel oxide and zinc oxide surfaces: a molecular orbital study 220 (1989) 193
Anger, G., A. Winkler and K.D. Rendulic, Adsorption and desorption kinetics in the systems H_2/Cu(111), H_2/Cu(110) and H_2/Cu(100) 220 (1989) 1
Astaldi, C., see Rudolf 220 (1989) L714
Astaldi, C., A. Santoni, F. Della Valle and R. Rosei, CO dissociation and recombination reactions on Ni(100) 220 (1989) 322

Baba, M., see Natori 220 (1989) 165
Baró, A.M., see Gómez-Rodríguez 220 (1989) 152
Bauer, E., see Lyuksyutov 220 (1989) 29
Bedzyk, M.J., Q. Shen, M.E. Keeffe, G. Navrotski and L.E. Berman, X-ray standing wave study of iodine on Ge(111) 220 (1989) 419
Belton, D.N. and C.L. Dimaggio, Low temperature surface diffusion and decomposition of $[Rh(CO)_2Cl]_2$ adsorbed on oxidized Al(100) 220 (1989) 96
Berg, O. and G.E. Ewing, The determination of monolayer structure by infrared spectroscopy: CO_2 on NaCl(100) 220 (1989) 207
Berman, L.E., see Bedzyk 220 (1989) 419
Besenbacher, F., see Mortensen 220 (1989) L701

Cao, R., see Kendelewicz 220 (1989) L726
Chen, W. and W.L. Schaich, Model calculation of infrared absorption by a monolayer of CO_2 on NaCl(100) 220 (1989) L733
Cheng, C.C., see Smentkowski 220 (1989) 307
Chizmeshya, A. and E. Zaremba, Interaction of rare gas atoms with metal surfaces: a pseudopotential approach 220 (1989) 443
Currie, J.F., see Sacher 220 (1989) L679

Della Valle, F., see Astaldi 220 (1989) 322
Dimaggio, C.L., see Belton 220 (1989) 96
Du Plessis, J., G.N. Van Wyk and E. Taglauer, Preferential sputtering and radiation enhanced segregation in palladium–platinum alloys 220 (1989) 381

Ehrlich, D., see Wohlrab 220 (1989) 243
Erskine, J.L., see Sellidj 220 (1989) 253
Espinos, J.P., see González-Elipe 220 (1989) 368
Ewing, G.E., see Berg 220 (1989) 207

Freund, H.-J., see Wohlrab 220 (1989) 243
Furuya, N. and S. Koide, Hydrogen adsorption on platinum single-crystal surfaces 220 (1989) 18

Surface Science 220 (1989) 472–475
North-Holland, Amsterdam

AUTHOR INDEX

Allen, V.M., W.E. Jones and P.D. Pacey, The interaction of oxygen and carbon monoxide with iron oxide, nickel oxide and zinc oxide surfaces: a molecular orbital study 220 (1989) 193
Anger, G., A. Winkler and K.D. Rendulic, Adsorption and desorption kinetics in the systems H_2/Cu(111), H_2/Cu(110) and H_2/Cu(100) 220 (1989) 1
Astaldi, C., see Rudolf 220 (1989) L714
Astaldi, C., A. Santoni, F. Della Valle and R. Rosei, CO dissociation and recombination reactions on Ni(100) 220 (1989) 322

Baba, M., see Natori 220 (1989) 165
Baró, A.M., see Gómez-Rodríguez 220 (1989) 152
Bauer, E., see Lyuksyutov 220 (1989) 29
Bedzyk, M.J., Q. Shen, M.E. Keeffe, G. Navrotski and L.E. Berman, X-ray standing wave study of iodine on Ge(111) 220 (1989) 419
Belton, D.N. and C.L. Dimaggio, Low temperature surface diffusion and decomposition of $[Rh(CO)_2Cl]_2$ adsorbed on oxidized Al(100) 220 (1989) 96
Berg, O. and G.E. Ewing, The determination of monolayer structure by infrared spectroscopy: CO_2 on NaCl(100) 220 (1989) 207
Berman, L.E., see Bedzyk 220 (1989) 419
Besenbacher, F., see Mortensen 220 (1989) L701

Cao, R., see Kendelewicz 220 (1989) L726
Chen, W. and W.L. Schaich, Model calculation of infrared absorption by a monolayer of CO_2 on NaCl(100) 220 (1989) L733
Cheng, C.C., see Smentkowski 220 (1989) 307
Chizmeshya, A. and E. Zaremba, Interaction of rare gas atoms with metal surfaces: a pseudopotential approach 220 (1989) 443
Currie, J.F., see Sacher 220 (1989) L679

Della Valle, F., see Astaldi 220 (1989) 322
Dimaggio, C.L., see Belton 220 (1989) 96
Du Plessis, J., G.N. Van Wyk and E. Taglauer, Preferential sputtering and radiation enhanced segregation in palladium–platinum alloys 220 (1989) 381

Ehrlich, D., see Wohlrab 220 (1989) 243
Erskine, J.L., see Sellidj 220 (1989) 253
Espinos, J.P., see González-Elipe 220 (1989) 368
Ewing, G.E., see Berg 220 (1989) 207

Freund, H.-J., see Wohlrab 220 (1989) 243
Furuya, N. and S. Koide, Hydrogen adsorption on platinum single-crystal surfaces 220 (1989) 18

Gómez-Herrero, J., see Gómez-Rodríguez 220 (1989) 152
Gómez-Rodríguez, J.M., J. Gómez-Herrero and A.M. Baró, Imaging cos(s,z): a method to separate the geometric and compositional contributions on STM barrier height profiles 220 (1989) 152
González-Elipe, A.R., G. Munuera, J.P. Espinos and J.M. Sanz, Compositional changes induced by 3.5 keV Ar^+ ion bombardment in Ni–Ti oxide systems. A comparative study 220 (1989) 368
Güntherodt, H.-J., see Hauert 220 (1989) 341

Hader, B. and O. Weis, Superpolishing sapphire: a method to produce atomically flat and damage free surfaces 220 (1989) 118
Hanawa, T., see Shoji 220 (1989) L719
Hauert, R., P. Oelhafen and H.-J. Güntherodt, Influence of the electronic structure on chemisorbed CO 220 (1989) 341
Heinz, K., see Michl 220 (1989) 59
Held, G., see Pfnür 220 (1989) 43
Hirva, P. and T.A. Pakkanen, Theoretical studies on the growth mechanisms of silicon thin films by atomic layer epitaxy 220 (1989) 137

Jacobi, K., see Myler 220 (1989) 353
Jakob, P. and D. Menzel, Benzene multilayers: a model for their anisotropic growth from vibrational spectroscopy and thermal desorption 220 (1989) 70
Jensen, F., see Mortensen 220 (1989) L701
Jones, W.E., see Allen 220 (1989) 193

Kahata, H. and K. Yagi, The effect of surface anisotropy of Si(001)2 × 1 on hollow formation in the initial stage of oxidation as studied by reflection electron microscopy 220 (1989) 131
Kasai, H., T. Yamamoto and A. Okiji, On the nonlinear dynamics in the oxidation of CO on Pt(100) and Pt(110) surfaces: forced oscillations 220 (1989) L709
Kashchiev, D., Thickness transitions in thin films: the equilibrium 220 (1989) 428
Kashihara, K., see Shoji 220 (1989) L719
Katsuki, S., Y. Sakai and E. Miyoshi, Model calculation for the frequency shift in CO coadsorbed with K on Cu(001) 220 (1989) 181
Keeffe, M.E., see Bedzyk 220 (1989) 419
Kendelewicz, T., K. Miyano, R. Cao, J.C. Woicik, I. Lindau and W.E. Spicer, Surface core level shifts on InP(110). Use of Sb overlayers 220 (1989) L726
Kesmodel, L.L., see Mohamed 220 (1989) L687
Kim, J.-S., see Mohamed 220 (1989) L687
Klink, C., see Mortensen 220 (1989) L701
Koide, S., see Furuya 220 (1989) 18
Kuhlenbeck, H., see Wohlrab 220 (1989) 243

Lambert, R.M., see Nix 220 (1989) L657
Landman, U., see Stoltze 220 (1989) L693
Landskron, H., see Michl 220 (1989) 59
Lindau, I., see Kendelewicz 220 (1989) L726
Lindroos, M., see Pfnür 220 (1989) 43
Lyuksyutov, I. and E. Bauer, On the ground state of commensurate overlayer lattices in a weak substrate potential 220 (1989) 29

Madix, R.J., see Thornburg 220 (1989) 268
Manceron, L. and J.-P. Perchard, Infrared study of the reactivity of CO with K_2 and K_3 molecules isolated in solid argon 220 (1989) 230
McLean, A.B., Constant final state measurements of surface core-level binding energy shifts: InP(110) and GaAs(110) 220 (1989) L671
Menzel, D., see Pfnür 220 (1989) 43
Menzel, D., see Jakob 220 (1989) 70
Michl, M., W. Nichtl-Pecher, W. Oed, H. Landskron, K. Heinz and K. Müller, Adsorbate-induced reconstruction in the phase 1×2-3 H/Rh(110) 220 (1989) 59
Mischenko III, J. and P.R. Watson, The termination of the titanium (100) surface 220 (1989) L667
Miyano, K., see Kendelewicz 220 (1989) L726
Miyoshi, E., see Katsuki 220 (1989) 181
Modesti, S., see Rudolf 220 (1989) L714
Mohamed, M.H., J.-S. Kim and L.L. Kesmodel, Surface phonon dispersion in ultrathin epitaxial films of Co on Cu(001) 220 (1989) L687
Mortensen, K., C. Klink, F. Jensen, F. Besenbacher and I. Stensgaard, Adsorption position of oxygen on the Pt(111) surface 220 (1989) L701
Müller, K., see Michl 220 (1989) 59
Munuera, G., see González-Elipe 220 (1989) 368
Myler, U. and K. Jacobi, On the electronic and geometric structure of the Si(113) surface 220 (1989) 353

Natori, A., M. Baba and H. Yasunaga, Time evolution of heterogeneous thin films during annealing 220 (1989) 165
Navrotski, G., see Bedzyk 220 (1989) 419
Nichtl-Pecher, W., see Michl 220 (1989) 59
Nix, R.M. and R.M. Lambert, Sorption, chemisorption and desorption of hydrogen by neodymium overlayers and Nd/Cu ultra thin alloy films on Cu(100) 220 (1989) L657
Nørskov, J.K., see Stoltze 220 (1989) L693

Oed, W., see Michl 220 (1989) 59
Oelhafen, P., see Hauert 220 (1989) 341
Okiji, A., see Kasai 220 (1989) L709
Oura, K., see Shoji 220 (1989) L719

Pacey, P.D., see Allen 220 (1989) 193
Pakkanen, T.A., see Hirva 220 (1989) 137
Perchard, J.-P., see Manceron 220 (1989) 230
Pfnür, H., G. Held, M. Lindroos and D. Menzel, Oxygen induced reconstruction of a close-packed surface: a LEED *IV* study on Ru(001)-p(2×1)O 220 (1989) 43

Rendulic, K.D., see Anger 220 (1989) 1
Rosei, R., see Rudolf 220 (1989) L714
Rosei, R., see Astaldi 220 (1989) 322
Rudolf, P., C. Astaldi, S. Modesti and R. Rosei, Kinetics of the C_2H_2 dissociation on Ni(111): a HREELS study 220 (1989) L714

Sacher, E., J.F. Currie and A. Yelon, Electronegativity effects in chemical sputtering 220 (1989) L679

Sakai, Y., see Katsuki 220 (1989) 181
Santoni, A., see Astaldi 220 (1989) 322
Sanz, J.M., see González-Elipe 220 (1989) 368
Schaich, W.L., see Chen 220 (1989) L733
Sellidj, A. and J.L. Erskine, Electron energy loss spectroscopy studies of nitrogen adsorption on W(100) 220 (1989) 253
Shen, Q., see Bedzyk 220 (1989) 419
Shoji, F., K. Kashihara, K. Oura and T. Hanawa, Surface hydrogen detection by low energy $^4He^+$ ion scattering spectroscopy 220 (1989) L719
Smentkowski, V.S., C.C. Cheng and J.T. Yates, Jr., The interaction of C_2Cl_4 with Fe(110) 220 (1989) 307
Spicer, W.E., see Kendelewicz 220 (1989) L726
Stensgaard, I., see Mortensen 220 (1989) L701
Stoltze, P., J.K. Nørskov and U. Landman, The onset of disorder in Al(110) surfaces below the melting point 220 (1989) L693
Šurda, A., Nonequilibrium thermal desorption spectra of dissociatively adsorbed molecules 220 (1989) 295

Taglauer, E., see Du Plessis 220 (1989) 381
Tanabe, T. and M. Tomita, The effect of surface sulfur on the oxidation of zirconium 220 (1989) 333
Thiel, P.A., see Walczak 220 (1989) L647
Thornburg, D.M. and R.J. Madix, Cleavage of N–H bonds by active oxygen on Ag(110). I. Ammonia 220 (1989) 268
Tomita, M., see Tanabe 220 (1989) 333
Tonini, R., see Valeri 220 (1989) 407
Tsitsopoulos, L.T., I.A. Webster and T.T. Tsotsis, Reaction rate oscillations during the electrochemical anodization of Cu in H_3PO_4 solutions: XPS and SEM studies 220 (1989) 391
Tsotsis, T.T., see Tsitsopoulos 220 (1989) 391

Valeri, S. and R. Tonini, High energy (~ 107 eV) Si peak in Ar^+ excited Auger emission from silicon and silicides 220 (1989) 407
Van Wyk, G.N., see Du Plessis 220 (1989) 381

Walczak, M.M. and P.A. Thiel, Low-temperature metastable states in thermal desorption of cyclic ethers 220 (1989) L647
Wambach, J., see Wohlrab 220 (1989) 243
Watson, P.R., see Mischenko III 220 (1989) L667
Webster, I.A., see Tsitsopoulos 220 (1989) 391
Weis, O., see Hader 220 (1989) 118
Winkler, A., see Anger 220 (1989) 1
Wohlrab, S., D. Ehrlich, J. Wambach, H. Kuhlenbeck and H.-J. Freund, Promoter action of alkali in the activation of CO_2 on Pd(111): a HREELS case study 220 (1989) 243
Woicik, J.C., see Kendelewicz 220 (1989) L726

Yagi, K., see Kahata 220 (1989) 131
Yamamoto, T., see Kasai 220 (1989) L709
Yasunaga, H., see Natori 220 (1989) 165
Yates, Jr., J.T., see Smentkowski 220 (1989) 307
Yelon, A., see Sacher 220 (1989) L679

Zaremba, E., see Chizmeshya 220 (1989) 443

Surface Science 220 (1989) 476–486
North-Holland, Amsterdam

SUBJECT INDEX

Acetylene

P. Rudolf, C. Astaldi, S. Modesti and R. Rosei, Kinetics of the C_2H_2 dissociation on Ni(111): a HREELS study 220 (1989) L714

Alkali halides

W. Chen and W.L. Schaich, Model calculation of infrared absorption by a monolayer of CO_2 on NaCl(100) 220 (1989) L733

O. Berg and G.E. Ewing, The determination of monolayer structure by infrared spectroscopy: CO_2 on NaCl(100) 220 (1989) 207

Alkali metals

S. Katsuki, Y. Sakai and E. Miyoshi, Model calculation for the frequency shift in CO coadsorbed with K on Cu(001) 220 (1989) 181

L. Manceron and J.-P. Perchard, Infrared study of the reactivity of CO with K_2 and K_3 molecules isolated in solid argon 220 (1989) 230

S. Wohlrab, D. Ehrlich, J. Wambach, H. Kuhlenbeck and H.-J. Freund, Promoter action of alkali in the activation of CO_2 on Pd(111): a HREELS case study 220 (1989) 243

Alloys

R. Hauert, P. Oelhafen and H.-J. Güntherodt, Influence of the electronic structure on chemisorbed CO 220 (1989) 341

J. du Plessis, G.N. Van Wyk and E. Taglauer, Preferential sputtering and radiation enhanced segregation in palladium–platinum alloys 220 (1989) 381

Aluminium

P. Stoltze, J.K. Nørskov and U. Landman, The onset of disorder in Al(110) surfaces below the melting point 220 (1989) L693

Aluminium oxide

D.N. Belton and C.L. Dimaggio, Low temperature surface diffusion and decomposition of $[Rh(CO)_2Cl]_2$ adsorbed on oxidized Al(100) 220 (1989) 96

B. Hader and O. Weis, Superpolishing sapphire: a method to produce atomically flat and damage free surfaces 220 (1989) 118

Ammonia

D.M. Thornburg and R.J. Madix, Cleavage of N–H bonds by active oxygen on Ag(110). I. Ammonia 220 (1989) 268

Annealing

A. Natori, M. Baba and H. Yasunaga, Time evolution of heterogeneous thin films during annealing 220 (1989) 165

Antimony

T. Kendelewicz, K. Miyano, R. Cao, J.C. Woicik, I. Lindau and W.E. Spicer, Surface core level shifts on InP(110). Use of Sb overlayers 220 (1989) L726

Atomic and molecular beam studies

G. Anger, A. Winkler and K.D. Rendulic, Adsorption and desorption kinetics in the systems H_2/Cu(111), H_2/Cu(110) and H_2/Cu(100) 220 (1989) 1

Auger electron spectroscopy

V.S. Smentkowski, C.C. Cheng and J.T. Yates, Jr., The interaction of C_2Cl_4 with Fe(110) 220 (1989) 307

C. Astaldi, A. Santoni, F. Della Valle and R. Rosei, CO dissociation and recombination reactions on Ni(100) 220 (1989) 322

T. Tanabe and M. Tomita, The effect of surface sulfur on the oxidation of zirconium 220 (1989) 333

Band structure

U. Myler and K. Jacobi, On the electronic and geometric structure of the Si(113) surface 220 (1989) 353

Benzene

P. Jakob and D. Menzel, Benzene multilayers: a model for their anisotropic growth from vibrational spectroscopy and thermal desorption 220 (1989) 70

Carbon dioxide

W. Chen and W.L. Schaich, Model calculation of infrared absorption by a monolayer of CO_2 on NaCl(100) 220 (1989) L733

O. Berg and G.E. Ewing, The determination of monolayer structure by infrared spectroscopy: CO_2 on NaCl(100) 220 (1989) 207

S. Wohlrab, D. Ehrlich, J. Wambach, H. Kuhlenbeck and H.-J. Freund, Promoter action of alkali in the activation of CO_2 on Pd(111): a HREELS case study 220 (1989) 243

Carbon monoxide

S. Katsuki, Y. Sakai and E. Miyoshi, Model calculation for the frequency shift in CO coadsorbed with K on Cu(001) 220 (1989) 181
V.M. Allen, W.E. Jones and P.D. Pacey, The interaction of oxygen and carbon monoxide with iron oxide, nickel oxide and zinc oxide surfaces: a molecular orbital study 220 (1989) 193
H. Kasai, T. Yamamoto and A. Okiji, On the nonlinear dynamics in the oxidation of CO on Pt(100) and Pt(110) surfaces: forced oscillations 220 (1989) L709
L. Manceron and J.-P. Perchard, Infrared study of the reactivity of CO with K_2 and K_3 molecules isolated in solid argon 220 (1989) 230
C. Astaldi, A. Santoni, F. Della Valle and R. Rosei, CO dissociation and recombination reactions on Ni(100) 220 (1989) 322
R. Hauert, P. Oelhafen and H.-J. Güntherodt, Influence of the electronic structure on chemisorbed CO 220 (1989) 341

Chemisorption theory

S. Katsuki, Y. Sakai and E. Miyoshi, Model calculation for the frequency shift in CO coadsorbed with K on Cu(001) 220 (1989) 181
V.M. Allen, W.E. Jones and P.D. Pacey, The interaction of oxygen and carbon monoxide with iron oxide, nickel oxide and zinc oxide surfaces: a molecular orbital study 220 (1989) 193
A. Chizmeshya and E. Zaremba, Interaction of rare gas atoms with metal surfaces: a pseudopotential approach 220 (1989) 443

Cobalt

M.H. Mohamed, J.-S. Kim and L.L. Kesmodel, Surface phonon dispersion in ultrathin epitaxial films of Co on Cu(001) 220 (1989) L687

Copper

R.M. Nix and R.M. Lambert, Sorption, chemisorption and desorption of hydrogen by neodymium overlayers and Nd/Cu ultra thin alloy films on Cu(100) 220 (1989) L657
M.H. Mohamed, J.-S. Kim and L.L. Kesmodel, Surface phonon dispersion in ultrathin epitaxial films of Co on Cu(001) 220 (1989) L687
G. Anger, A. Winkler and K.D. Rendulic, Adsorption and desorption kinetics in the systems H_2/Cu(111), 220 (1989) 1
S. Katsuki, Y. Sakai and E. Miyoshi, Model calculation for the frequency shift in CO coadsorbed with K on Cu(001) 220 (1989) 181
L.T. Tsitsopoulos, I.A. Webster and T.T. Tsotsis, Reaction rate oscillations during the electrochemical anodization of Cu in H_3PO_4 solutions: XPS and SEM studies 220 (1989) 391

Diffusion

J. du Plessis, G.N. Van Wyk and E. Taglauer, Preferential sputtering and radiation enhanced segregation in palladium–platinum alloys 220 (1989) 381

Electron diffraction, see also Low energy electron diffraction

B. Hader and O. Weis, Superpolishing sapphire: a method to produce atomically flat and damage free surfaces 220 (1989) 118

Electron emission

S. Valeri and R. Tonini, High energy (~ 107 eV) Si peak in Ar^+ excited Auger emission from silicon and silicides 220 (1989) 407

Electron energy loss spectroscopy

M.H. Mohamed, J.-S. Kim and L.L. Kesmodel, Surface phonon dispersion in ultrathin epitaxial films of Co on Cu(001) 220 (1989) L687
P. Jakob and D. Menzel, Benzene multilayers: a model for their anisotropic growth from vibrational spectroscopy and thermal desorption 220 (1989) 70
D.N. Belton and C.L. Dimaggio, Low temperature surface diffusion and decomposition of $[Rh(CO)_2Cl]_2$ adsorbed on oxidized Al(100) 220 (1989) 96
P. Rudolf, C. Astaldi, S. Modesti and R. Rosei, Kinetics of the C_2H_2 dissociation on Ni(111): a HREELS study 220 (1989) L714
S. Wohlrab, D. Ehrlich, J. Wambach, H. Kuhlenbeck and H.-J. Freund, Promoter action of alkali in the activation of CO_2 on Pd(111): a HREELS case study 220 (1989) 243
A. Sellidj and J.L. Erskine, Electron energy loss spectroscopy studies of nitrogen adsorption on W(100) 220 (1989) 253
D.M. Thornburg and R.J. Madix, Cleavage of N–H bonds by active oxygen on Ag(110). I. Ammonia 220 (1989) 268

Electron microscopy

H. Kahata and K. Yagi, The effect of surface anisotropy of Si(001)2 × 1 on hollow formation in the initial stage of oxidation as studied by reflection electron microscopy 220 (1989) 131
L.T. Tsitsopoulos, I.A. Webster and T.T. Tsotsis, Reaction rate oscillations during the electrochemical anodization of Cu in H_3PO_4 solutions: XPS and SEM studies 220 (1989) 391

Epitaxy

P. Hirva and T.A. Pakkanen, Theoretical studies on the growth mechanisms of silicon thin films by atomic layer epitaxy 220 (1989) 137

Gallium arsenide

A.B. McLean, Constant final state measurements of surface core-level binding energy shifts: InP(110) and GaAs(110) 220 (1989) L671

Germanium

M.J. Bedzyk, Q. Shen, M.E. Keeffe, G. Navrotski and L.E. Berman, X-ray standing wave study of iodine on Ge(111) 220 (1989) 419

Halogens

M.J. Bedzyk, Q. Shen, M.E. Keeffe, G. Navrotski and L.E. Berman, X-ray standing wave study of iodine on Ge(111) 220 (1989) 419

Hydrogen

R.M. Nix and R.M. Lambert, Sorption, chemisorption and desorption of hydrogen by neodymium overlayers and Nd/Cu ultra thin alloy films on Cu(100) 220 (1989) L657

G. Anger, A. Winkler and K.D. Rendulic, Adsorption and desorption kinetics in the systems H_2/Cu(111), H_2/Cu(110) and H_2/Cu(100) 220 (1989) 1

N. Furuya and S. Koide, Hydrogen adsorption on platinum single-crystal surfaces 220 (1989) 18

M. Michl, W. Nichtl-Pecher, W. Oed, H. Landskron, K. Heinz and K. Müller, Adsorbate-induced reconstruction in the phase 1×2-3 H/Rh(110) 220 (1989) 59

F. Shoji, K. Kashihara, K. Oura and T. Hanawa, Surface hydrogen detection by low energy $^4He^+$ ion scattering spectroscopy 220 (1989) L719

Indium phosphide

A.B. McLean, Constant final state measurements of surface core-level binding energy shifts: InP(110) and GaAs(110) 220 (1989) L671

T. Kendelewicz, K. Miyano, R. Cao, J.C. Woicik, I. Lindau and W.E. Spicer, Surface core level shifts on InP(110). Use of Sb overlayers 220 (1989) L726

Infrared spectroscopy

W. Chen and W.L. Schaich, Model calculation of infrared absorption by a monolayer of CO_2 on NaCl(100) 220 (1989) L733

O. Berg and G.E. Ewing, The determination of monolayer structure by infrared spectroscopy: CO_2 on NaCl(100) 220 (1989) 207

L. Manceron and J.-P. Perchard, Infrared study of the reactivity of CO with K_2 and K_3 molecules isolated in solid argon 220 (1989) 230

Ion scattering

K. Mortensen, C. Klink, F. Jensen, F. Besenbacher and I. Stensgaard, Adsorption position of oxygen on the Pt(111) surface 220 (1989) L701

F. Shoji, K. Kashihara, K. Oura and T. Hanawa, Surface hydrogen detection by low energy $^4He^+$ ion scattering spectroscopy 220 (1989) L719

Iron

V.S. Smentkowski, C.C. Cheng and J.T. Yates, Jr., The interaction of C_2Cl_4 with Fe(110) 220 (1989) 307

Iron oxide

V.M. Allen, W.E. Jones and P.D. Pacey, The interaction of oxygen and carbon monoxide with iron oxide, nickel oxide and zinc oxide surfaces: a molecular orbital study 220 (1989) 193

Lanthanides

R.M. Nix and R.M. Lambert, Sorption, chemisorption and desorption of hydrogen by neodymium overlayers and Nd/Cu ultra thin alloy films on Cu(100) 220 (1989) L657

Low energy electron diffraction

J. Mischenko III and P.R. Watson, The termination of the titanium (100) surface 220 (1989) L667

H. Pfnür, G. Held, M. Lindroos and D. Menzel, Oxygen induced reconstruction of a close-packed surface: a LEED *IV* study on Ru(001)-p(2 × 1)O 220 (1989) 43

M. Michl, W. Nichtl-Pecher, W. Oed, H. Landskron, K. Heinz and K. Müller, Adsorbate-induced reconstruction in the phase 1 × 2-3 H/Rh(110) 220 (1989) 59

Metals

A. Chizmeshya and E. Zaremba, Interaction of rare gas atoms with metal surfaces: a pseudopotential approach 220 (1989) 443

Nickel

P. Rudolf, C. Astaldi, S. Modesti and R. Rosei, Kinetics of the C_2H_2 dissociation on Ni(111): a HREELS study 220 (1989) L714

C. Astaldi, A. Santoni, F. Della Valle and R. Rosei, CO dissociation and recombination reactions on Ni(100) 220 (1989) 322

Nickel oxide

V.M. Allen, W.E. Jones and P.D. Pacey, The interaction of oxygen and carbon monoxide with iron oxide, nickel oxide and zinc oxide surfaces: a molecular orbital study 220 (1989) 193

A.R. González-Elipe, G. Munuera, J.P. Espinos and J.M. Sanz, Compositional changes induced by 3.5 keV Ar^+ ion bombardment in Ni–Ti oxide systems. A comparative study 220 (1989) 368

Nitrogen

A. Sellidj and J.L. Erskine, Electron energy loss spectroscopy studies of nitrogen adsorption on W(100) 220 (1989) 253

Noble gases

A. Chizmeshya and E. Zaremba, Interaction of rare gas atoms with metal surfaces: a pseudopotential approach 220 (1989) 443

Organic substances

M.M. Walczak and P.A. Thiel, Low-temperature metastable states in thermal desorption of cyclic ethers 220 (1989) L647

V.S. Smentkowski, C.C. Cheng and J.T. Yates, Jr., The interaction of C_2Cl_4 with Fe(110) 220 (1989) 307

Oxygen

H. Pfnür, G. Held, M. Lindroos and D. Menzel, Oxygen induced reconstruction of a close-packed surface: a LEED *IV* study on Ru(001)-p(2 × 1)O 220 (1989) 43

H. Kahata and K. Yagi, The effect of surface anisotropy of Si(001)2 × 1 on hollow formation in the initial stage of oxidation as studied by reflection electron microscopy 220 (1989) 131

V.M. Allen, W.E. Jones and P.D. Pacey, The interaction of oxygen and carbon monoxide with iron oxide, nickel oxide and zinc oxide surfaces: a molecular orbital study 220 (1989) 193

K. Mortensen, C. Klink, F. Jensen, F. Besenbacher and I. Stensgaard, Adsorption position of oxygen on the Pt(111) surface 220 (1989) L701

D.M. Thornburg and R.J. Madix, Cleavage of N–H bonds by active oxygen on Ag(110). I. Ammonia 220 (1989) 268

T. Tanabe and M. Tomita, The effect of surface sulfur on the oxidation of zirconium 220 (1989) 333

Palladium

S. Wohlrab, D. Ehrlich, J. Wambach, H. Kuhlenbeck and H.-J. Freund, Promoter action of alkali in the activation of CO_2 on Pd(111): a HREELS case study 220 (1989) 243

Photoelectron spectroscopy

R.M. Nix and R.M. Lambert, Sorption, chemisorption and desorption of hydrogen by neodymium overlayers and Nd/Cu ultra thin alloy films on Cu(100) 220 (1989) L657

A.B. McLean, Constant final state measurements of surface core-level binding energy shifts: InP(110) and GaAs(110) 220 (1989) L671

T. Kendelewicz, K. Miyano, R. Cao, J.C. Woicik, I. Lindau and W.E. Spicer, Surface core level shifts on InP(110). Use of Sb overlayers 220 (1989) L726
R. Hauert, P. Oelhafen and H.-J. Güntherodt, Influence of the electronic structure on chemisorbed CO 220 (1989) 341
U. Myler and K. Jacobi, On the electronic and geometric structure of the Si(113) surface 220 (1989) 353
A.R. González-Elipe, G. Munuera, J.P. Espinos and J.M. Sanz, Compositional changes induced by 3.5 keV Ar^+ ion bombardment in Ni–Ti oxide systems. A comparative study 220 (1989) 368
L.T. Tsitsopoulos, I.A. Webster and T.T. Tsotsis, Reaction rate oscillations during the electrochemical anodization of Cu in H_3PO_4 solutions: XPS and SEM studies 220 (1989) 391

Platinum

N. Furuya and S. Koide, Hydrogen adsorption on platinum single-crystal surfaces 220 (1989) 18
K. Mortensen, C. Klink, F. Jensen, F. Besenbacher and I. Stensgaard, Adsorption position of oxygen on the Pt(111) surface 220 (1989) L701
H. Kasai, T. Yamamoto and A. Okiji, On the nonlinear dynamics in the oxidation of CO on Pt(100) and Pt(110) surfaces: forced oscillations 220 (1989) L709

Ruthenium

M.M. Walczak and P.A. Thiel, Low-temperature metastable states in thermal desorption of cyclic ethers 220 (1989) L647
H. Pfnür, G. Held, M. Lindroos and D. Menzel, Oxygen induced reconstruction of a close-packed surface: a LEED *IV* study on Ru(001)-p(2 × 1)O 220 (1989) 43
M. Michl, W. Nichtl-Pecher, W. Oed, H. Landskron, K. Heinz and K. Müller, Adsorbate-induced reconstruction in the phase 1 × 2-3 H/Rh(110) 220 (1989) 59
P. Jakob and D. Menzel, Benzene multilayers: a model for their anisotropic growth from vibrational spectroscopy and thermal desorption 220 (1989) 70

Silicides

S. Valeri and R. Tonini, High energy (~ 107 eV) Si peak in Ar^+ excited Auger emission from silicon and silicides 220 (1989) 407

Silicon

H. Kahata and K. Yagi, The effect of surface anisotropy of Si(001)2 × 1 on hollow formation in the initial stage of oxidation as studied by reflection electron microscopy 220 (1989) 131
P. Hirva and T.A. Pakkanen, Theoretical studies on the growth mechanisms of silicon thin films by atomic layer epitaxy 220 (1989) 137
F. Shoji, K. Kashihara, K. Oura and T. Hanawa, Surface hydrogen detection by low energy $^4He^+$ ion scattering spectroscopy 220 (1989) L719
U. Myler and K. Jacobi, On the electronic and geometric structure of the Si(113) surface 220 (1989) 353

S. Valeri and R. Tonini, High energy (~ 107 eV) Si peak in Ar^+ excited Auger emission from silicon and silicides 220 (1989) 407

Silver

D.M. Thornburg and R.J. Madix, Cleavage of N–H bonds by active oxygen on Ag(110). I. Ammonia 220 (1989) 268

Solid–electrolyte interface

N. Furuya and S. Koide, Hydrogen adsorption on platinum single-crystal surfaces 220 (1989) 18

L.T. Tsitsopoulos, I.A. Webster and T.T. Tsotsis, Reaction rate oscillations during the electrochemical anodization of Cu in H_3PO_4 solutions: XPS and SEM studies 220 (1989) 391

Sputtering

E. Sacher, J.F. Currie and A. Yelon, Electronegativity effects in chemical sputtering 220 (1989) L679

A.R. González-Elipe, G. Munuera, J.P. Espinos and J.M. Sanz, Compositional changes induced by 3.5 keV Ar^+ ion bombardment in Ni–Ti oxide systems. A comparative study 220 (1989) 368

J. du Plessis, G.N. Van Wyk and E. Taglauer, Preferential sputtering and radiation enhanced segregation in palladium–platinum alloys 220 (1989) 381

Sulphur

T. Tanabe and M. Tomita, The effect of surface sulfur on the oxidation of zirconium 220 (1989) 333

Surface phonons and adsorbate vibrations

M.H. Mohamed, J.-S. Kim and L.L. Kesmodel, Surface phonon dispersion in ultrathin epitaxial films of Co on Cu(001) 220 (1989) L687

Surface roughness

B. Hader and O. Weis, Superpolishing sapphire: a method to produce atomically flat and damage free surfaces 220 (1989) 118

Surface segregation

J. du Plessis, G.N. Van Wyk and E. Taglauer, Preferential sputtering and radiation enhanced segregation in palladium–platinum alloys 220 (1989) 381

Surface structure, see also Low energy electron diffraction

J. Mischenko III and P.R. Watson, The termination of the titanium (100) surface 220 (1989) L667
I. Lyuksyutov and E. Bauer, On the ground state of commensurate overlayer lattices in a weak substrate potential 220 (1989) 29
H. Pfnür, G. Held, M. Lindroos and D. Menzel, Oxygen induced reconstruction of a close-packed surface: a LEED *IV* study on Ru(001)-p(2 × 1)O 220 (1989) 43
M. Michl, W. Nichtl-Pecher, W. Oed, H. Landskron, K. Heinz and K. Müller, Adsorbate-induced reconstruction in the phase 1 × 2-3 H/Rh(110) 220 (1989) 59
K. Mortensen, C. Klink, F. Jensen, F. Besenbacher and I. Stensgaard, Adsorption position of oxygen on the Pt(111) surface 220 (1989) L701

Surface thermodynamics

P. Stoltze, J.K. Nørskov and U. Landman, The onset of disorder in Al(110) surfaces below the melting point 220 (1989) L693
D. Kashchiev, Thickness transitions in thin films: the equilibrium 220 (1989) 428

Thermal desorption

M.M. Walczak and P.A. Thiel, Low-temperature metastable states in thermal desorption of cyclic ethers 220 (1989) L647
R.M. Nix and R.M. Lambert, Sorption, chemisorption and desorption of hydrogen by neodymium overlayers and Nd/Cu ultra thin alloy films on Cu(100) 220 (1989) L657
G. Anger, A. Winkler and K.D. Rendulic, Adsorption and desorption kinetics in the systems H_2/Cu(111), H_2/Cu(110) and H_2/Cu(100) 220 (1989) 1
P. Jakob and D. Menzel, Benzene multilayers: a model for their anisotropic growth from vibrational spectroscopy and thermal desorption 220 (1989) 70
D.N. Belton and C.L. Dimaggio, Low temperature surface diffusion and decomposition of $[Rh(CO)_2Cl]_2$ adsorbed on oxidized Al(100) 220 (1989) 96
D.M. Thornburg and R.J. Madix, Cleavage of N–H bonds by active oxygen on Ag(110). I. Ammonia 220 (1989) 268
A. Šurda, Nonequilibrium thermal desorption spectra of dissociatively adsorbed molecules 220 (1989) 295
V.S. Smentkowski, C.C. Cheng and J.T. Yates, Jr., The interaction of C_2Cl_4 with Fe(110) 220 (1989) 307

Thin films

A. Natori, M. Baba and H. Yasunaga, Time evolution of heterogeneous thin films during annealing 220 (1989) 165
D. Kashchiev, Thickness transitions in thin films: the equilibrium 220 (1989) 428

Titanium

J. Mischenko III and P.R. Watson, The termination of the titanium (100) surface 220 (1989) L667

Titanium oxide

A.R. González-Elipe, G. Munuera, J.P. Espinos and J.M. Sanz, Compositional changes induced by 3.5 keV Ar^+ ion bombardment in Ni–Ti oxide systems. A comparative study 220 (1989) 368

Tungsten

A. Sellidj and J.L. Erskine, Electron energy loss spectroscopy studies of nitrogen adsorption on W(100) 220 (1989) 253

Tunneling

J.M. Gómez-Rodríguez, J. Gómez-Herrero and A.M. Baró, Imaging $\cos(s,z)$: a method to separate the geometric and compositional contributions on STM barrier height profiles 220 (1989) 152

X-ray diffraction

M.J. Bedzyk, Q. Shen, M.E. Keeffe, G. Navrotski and L.E. Berman, X-ray standing wave study of iodine on Ge(111) 220 (1989) 419

Zinc oxide

V.M. Allen, W.E. Jones and P.D. Pacey, The interaction of oxygen and carbon monoxide with iron oxide, nickel oxide and zinc oxide surfaces: a molecular orbital study 220 (1989) 193

Zirconium

T. Tanabe and M. Tomita, The effect of surface sulfur on the oxidation of zirconium 220 (1989) 333